



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/758,609

Filing Date: 1/15/04

Applicant: Walter et al.

Title: GENERATOR WITH DUAL CYCLOCONVERTER FOR
120/240 VAC OPERATION

Attorney Docket: 0275L-000675

Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cross-referenced pending U.S. application listed below in Section IV, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. X Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. See the attached foreign patent office communication from a counterpart foreign application.
2. X English translations or English abstracts are provided as indicated on the PTO-1449 Form.
3. X Other: A brief summary of the following documents that are not in English and for which English translations or English abstracts are not provided is as follows:

1. German Utility Model No. 295 01 707 UI (ISET Institut für Solare Energieversorgungstechnik Verein an der Universität Gesamthochschule Kassel e.V.) which was filed on February 3, 1995 and published on June 29, 1995 describes in general a power converter circuit arrangement, in particular for photo-voltaic systems or systems for storing DC current.

Figure 1 shows the sheme of a power converter topology consisting of two DC/DC converters in parallel/serial arrangement. Figure 2 shows the sheme of a power converter topology consisting of two DC/DC converters in parallel/parallel arrangement. And figure 3 shows the preferred embodiment having a bidirectional zeta— converter.

2. DE 298 21 825 UI describes in general a device for starting a combustion engine and for charging a starter battery. As can be seen from the figure, the combustion engine (Verbrennungsmotor) is coupled with a combination electric motor/generator. When charging the battery, the electric generator is connected (via a first closed switch - as in the figure) to a rectifier unit, and the rectifier unit is connected (via a second closed switch - as in the figure) to the battery for charging the battery with a DC current. When starting the combustion engine, the battery is connected via a first closed switch (which is opened in the figure) to an inverter unit for converting DC current from the battery into AC current. The inverter unit is connected via a second closed switch (which is also opened in the figure) to the electric motor for starting the combustion engine. As disclosed in the description, the speed of rotation of the electric motor can be changed by means of a frequency converter (not shown in the figure).

C. ____ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. X The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

<u>Serial No.</u>	<u>Filing Date</u>	<u>Art Unit</u>
10/453,988	June 4, 2003	
10/077,386	February 15, 2002	
10/077,219	February 15, 2002	
US04001091	January 16, 2004	

V. THIS IDS IS BEING FILED UNDER

A. X **37 C.F.R. § 1.97(b):** (check only one box)

1. ____ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. X before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. §

1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ____ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ____ **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ____ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ____ See the certification below. No fee is required.

C. ____ **37 C.F.R. § 1.97(d):**

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ____ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. **CERTIFICATION UNDER 37 C.F.R. § 1.97(e):** (check only one box)

The undersigned hereby certifies that:

A. ____ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. § 1.704(d) below in section VII, if applicable; or

B. ____ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ____ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than

three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

___ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

A. ___ A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. ___ Please charge Deposit Account No. 02-2548 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 02-2548.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 02-2548.

Respectfully submitted,

Dated: April 21, 2004

By: RA. Fuller III
Roland A. Fuller III,
Reg. No. 31,160

HARNESS, DICKEY & PIERCE, P.L.C.
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RAF/akb



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET NO.

SERIAL NO.

0275L-000675

10/758,609

APPLICANT

Walter et al.

FILING DATE

GROUP

1/15/04

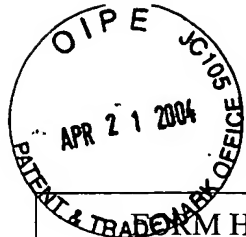
U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		3,982,168	09/21/1976	Bose et al.		
2.		4,122,354	10/24/1978	Howland		
3.		4,174,534	11/13/1979	Kotlarewsky		
4.		4,808,842	02/28/1989	Hughes		
5.		4,830,412	05/16/1989	Raad et al.		
6.		5,065,086	11/12/1991	Takakado		
7.		5,132,604	07/21/1992	Shimane et al.		
8.		5,212,952	05/25/1993	Yokoyama et al.		
9.		5,355,300	10/11/1994	Zinn		
10.		5,689,174	11/18/1997	Pacheco Sr.		
11.		5,751,070	05/12/1998	Nagao et al.		
12.		5,784,267	07/21/1998	Koenig et al.		
13.		5,998,976	12/07/1999	Steffan		
14.		5,998,976	12/07/1999	Steffan et al.		
15.		6,008,545	12/18/1999	Nagano et al.		
16.		6,166,455	12/26/2000	Li		
17.		6,202,776	03/20/2001	Masberg et al.		
18.		6,265,786	07/24/2001	Bosley et al.		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PATENT AND TRADEMARK OFFICE
HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET NO.

0275L-000675

SERIAL No.

10/758,609

APPLICANT

Walter et al.

FILING DATE

1/15/04

GROUP

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		05-292746	11/05/1993	Japan		abstract	
2.		61-177167	08/08/1986	Japan		abstract	
3.		05-153780	06/18/1993	Japan		abstract	
4.		10-108463	04/24/1998	Japan		abstract	
5.		64-050763	02/27/1989	Japan		abstract	
6.		EP 0 488 108 A1	06/03/1992	Europe		abstract	
7.		295 01 707 U1	06/29/1995	German			X
8.		EP 1 138 938 A2	10/04/2001	Europe		abstract	
9.		DE 298 21 825 U1	12/09/1998	Germany			X

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
1.		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.